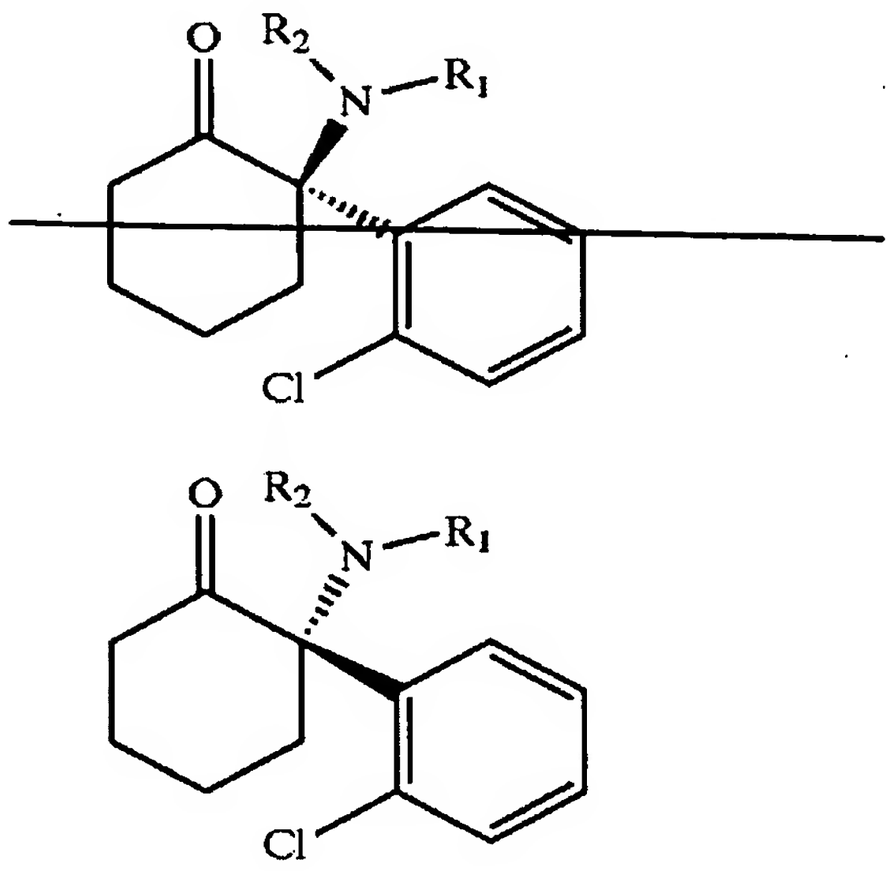
Amendments to the Claims:

1. (Currently Amended) A method for treating pain in a subject comprising administering to a subject in need thereof an effective amount of a compound of ~~formula 1~~ or formula 2



wherein:

R_1=H, R_2=H. [[,]]

~~R_1=Methyl, R_2=CH_2OCOR_3~~

~~R_1=H, R_2=CH_2OCOR_3~~

~~R_1=Methyl, R_2=CH_2COOR_3~~

~~R_1=H, R_2=CH_2COOR_3~~

~~R_1=Methyl, R_2=$COOR_3$~~

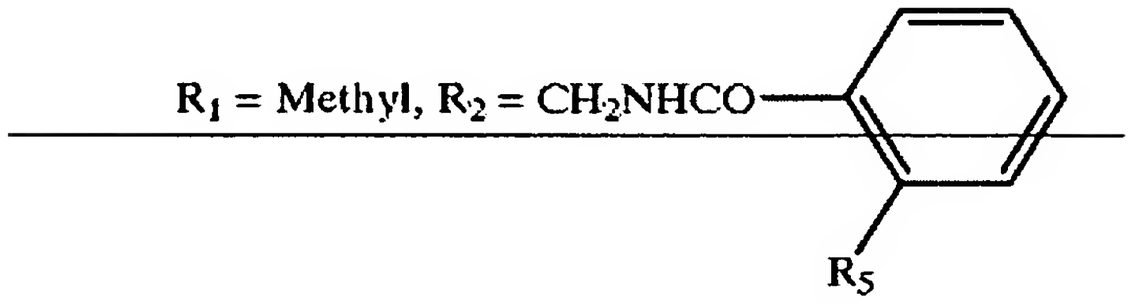
~~R_1=H, R_2=$COOR_3$~~

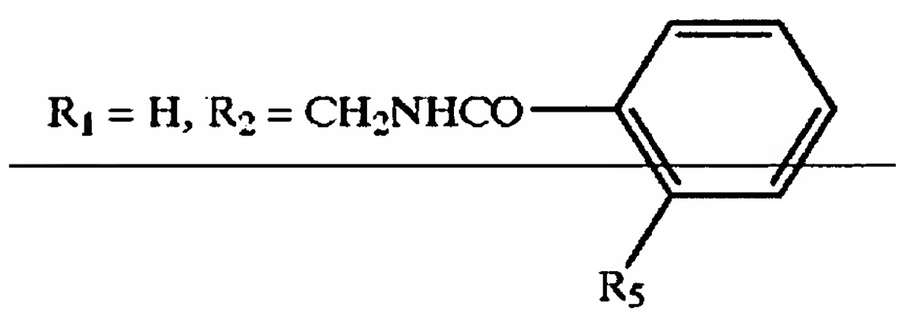
~~R_1=Methyl, R_2=$COOCH_2CH_2N(CH_3)_2$~~

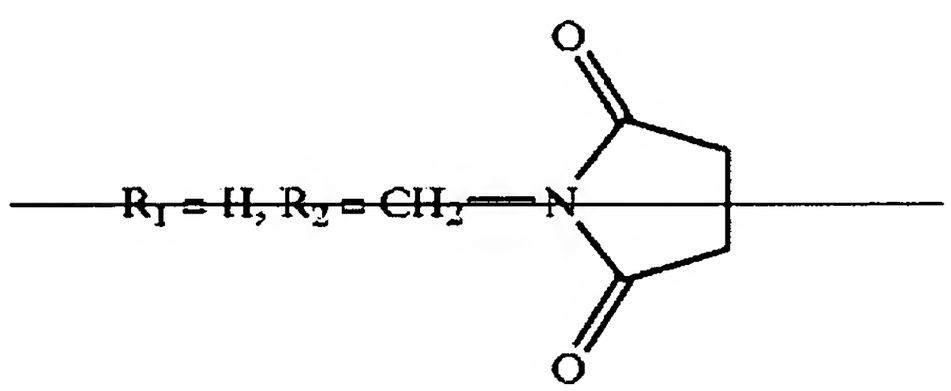
~~R_1=H, R_2=$COOCH_2CH_2N(CH_3)_2$~~

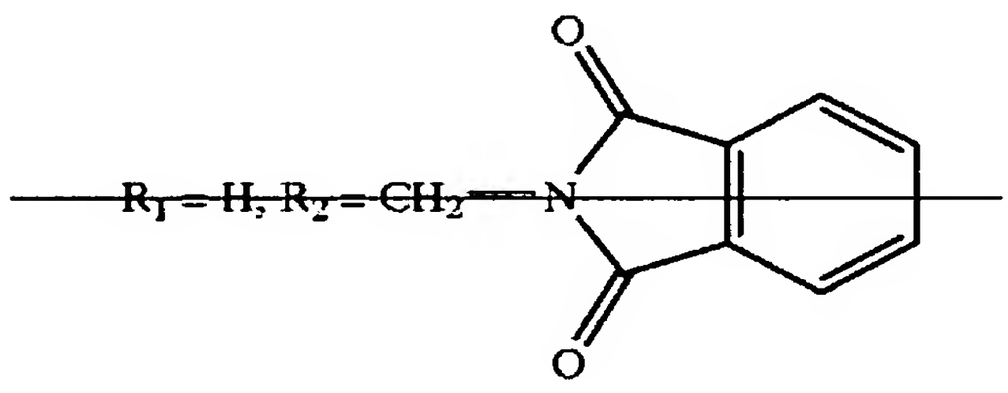
~~R_1=Methyl, R_2=$COOCH(R_3)OCOR_4$~~

~~R_1=H, R_2=$COOCH(R_3)OCOR_4$~~

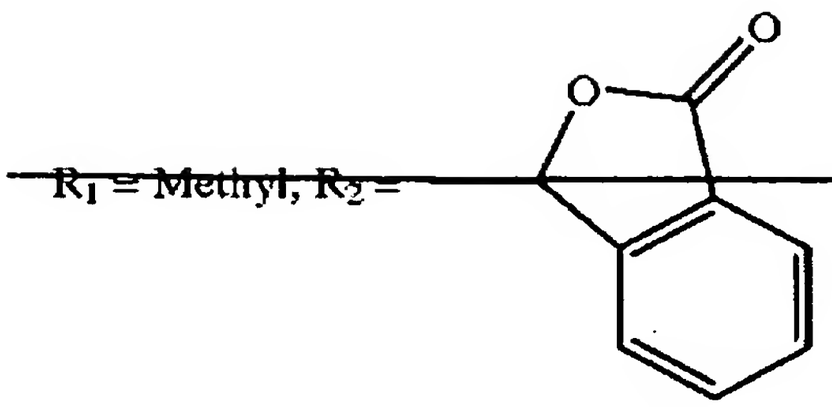




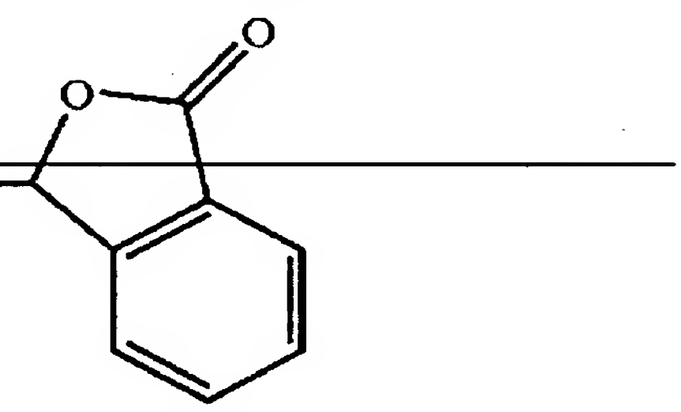




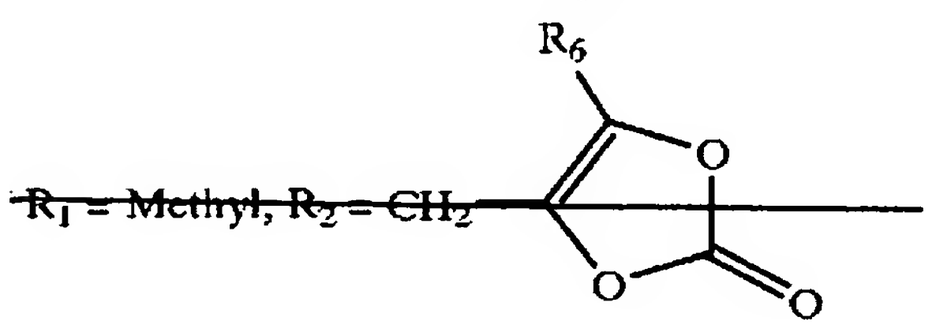
~~R_1 = Methyl, R_2 =~~



R_1 = H, R_2 =

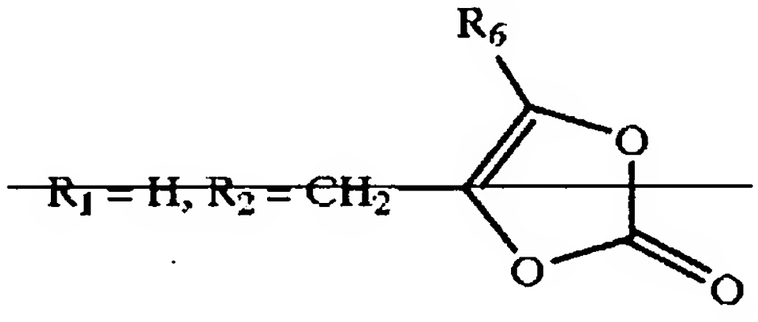


~~R_1 = Methyl, R_2 = CH_2~~



~~or~~

~~R_1 = H, R_2 = CH_2~~



~~and wherein R_3 and R_4 are phenyl, aryl, azaaryl, alkyl, branched alkyl, cycloalkyl, alkenyl, cycloalkenyl;~~

~~where R_5 = OH or SH;~~

~~and where R_6 = alkyl or branched alkyl;~~

~~or a racemic mixture of compounds of formula 1 and formula 2 in which R_1 = H and R_2 can be any of the groups recited above for R_2, including H;~~

and pharmaceutically acceptable salts and solvates thereof.

2. (Currently Amended) The method according to Claim 1, wherein said compound is ~~(±) norketamine,~~ S-norketamine, ~~R-norketamine, or any combination thereof,~~ or any pharmaceutically acceptable salts ~~or solvates~~ thereof.

3-4. (Canceled)

5. (Original) The method according to Claim 1, wherein said effective amount of said compound is about 1% to about 50% of an amount used to induced anesthesia.

6. (Original) The method according to Claim 1, wherein said effective amount of said compound is about 5% to about 40% of an amount used to induced anesthesia.

7. (Original) The method according to Claim 1, wherein said effective amount of said compound is about 10% to about 20% of an amount used to induced anesthesia.

8. (Original) The method according to Claim 1, wherein said effective amount of said compound is about 0.01 to about 20 mg/kg of body weight

9. (Original) The method according to Claim 1, wherein said effective amount of said compound is about 0.05 to about 8 mg/kg of body weight.

10. (Original) The method according to Claim 1 wherein said pain is breakthrough pain or pain associated with wind-up.

11. (Canceled)

12. (Original) The method according to Claim 1 wherein said pain is chronic pain or neuropathic pain.

13. (Original) The method according to Claim 1, wherein said effective amount of said compound is administered over a 24 hour period.

14. (Original) The method according to Claim 1, wherein said effective amount of said compound is administered in conjunction with a narcotic analgesic effective to alleviate pain.

15. (Original) The method according to Claim 14, further comprising decreasing a dose of the narcotic analgesic.

16. (Original) A method for self-treating pain in a subject comprising self-administering on an outpatient basis via one or more of the transmucosal, transdermal, nasal, oral, or pulmonary routes, or any combination thereof, about 0.01 to about 20 mg/kg of body weight of a compound of Claim 1 which is effective to alleviate pain.

17. (Original) The method of Claim 16 wherein an effective amount of said compound is determined by a physician or medical care provider to be below a level that induces dysphoria.

18. (Original) The method according to Claim 16, wherein said compound is (±) norketamine, S-norketamine, R-norketamine, or any combination thereof, or any pharmaceutically acceptable salts or solvates thereof.

19-20. (Canceled)

21. (Original) The method according to Claim 16, wherein said effective amount of said compound is about 1% to about 50% of an amount used to induced anesthesia.

22. (Original) The method according to Claim 16, wherein said effective amount of said compound is about 5% to about 40% of an amount used to induced anesthesia.

23. (Original) The method according to Claim 16, wherein said effective amount of said compound is about 10% to about 20% of an amount used to induced anesthesia.

24. (Original) The method according to Claim 16, wherein said effective amount of said compound is about 0.01 to about 20 mg/kg of body weight.

25. (Original) The method according to Claim 16, wherein said effective amount of said compound is about 0.05 to about 8 mg/kg of body weight.

26-27. (Canceled)

28. (Original) The method according to Claim 16 wherein said pain is chronic pain or neuropathic pain.

29. (Original) The method according to Claim 16 wherein said effective amount of said compound is administered over a 24 hour period.

30. (Original) The method according to Claim 16 wherein said effective amount of said compound is administered in conjunction with a narcotic analgesic effective to alleviate pain.

31. (Original) The method according to Claim 29 further comprising decreasing a dose of the narcotic analgesic.

32-70. (Canceled)

71. (Previously Presented) The method of Claim 1, wherein said compound is administered to said subject via a route selected from the group consisting of intravenous, intramuscular, subcutaneous, intrathecal, and epidural.

72. (Canceled)